

Amended Claims (Attorney Docket No. LeA 36 590)

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1. (Currently amended) A method of screening for therapeutic agents useful in the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising the steps of
  - i) contacting a test compound with a HM74 polypeptide,
  - ii) detecting binding of said test compound to said HM74 polypeptide.
2. (Currently amended) A method of screening for therapeutic agents useful in the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising the steps of
  - i) determining the activity of a HM74 polypeptide at a certain concentration of a test compound or in the absence of said test compound,
  - ii) determining the activity of said polypeptide at a different concentration of said test compound.
3. (Currently amended) A method of screening for therapeutic agents useful in the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising the steps of
  - i) determining the activity of a HM 74 polypeptide at a certain concentration of a test compound,
  - ii) determining the activity of a HM74 polypeptide at the presence of a compound known to be a regulator of a HM74 polypeptide.

4. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the step of contacting is in or at the surface of a cell.
5. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the cell is in vitro.
6. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the step of contacting is in a cell-free system.
7. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the polypeptide is coupled to a detectable label.
8. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the compound is coupled to a detectable label.
9. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.
10. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the polypeptide is attached to a solid support.
11. (Currently amended) The method of ~~any of claims~~ claim 1 to 3, wherein the compound is attached to a solid support.
12. (Currently amended) A method of screening for therapeutic agents useful in the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising the steps of
  - i) contacting a test compound with a HM74 polynucleotide,
  - ii) detecting binding of said test compound to said HM74 polynucleotide.
13. (Original) The method of claim 12 wherein the nucleic acid molecule is RNA.

14. (Original) The method of claim 12 wherein the contacting step is in or at the surface of a cell.
15. (Original) The method of claim 12 wherein the contacting step is in a cell-free system.
16. (Original) The method of claim 12 wherein polynucleotide is coupled to a detectable label.
17. (Original) The method of claim 12 wherein the test compound is coupled to a detectable label.
18. (Currently amended) A method of diagnosing a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising the steps of
  - i) determining the amount of a HM74 polynucleotide in a sample taken from said mammal,
  - ii) determining the amount of HM74 polynucleotide in healthy and/or diseased mammals.
19. (Currently amended) A pharmaceutical composition for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising a therapeutic agent which binds to a HM74 polypeptide.
20. (Currently amended) A pharmaceutical composition for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising a therapeutic agent which regulates the activity of a HM74 polypeptide.
21. (Currently amended) A pharmaceutical composition for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation,

respiratory diseases and gastroenterological diseases in a mammal comprising a therapeutic agent which regulates the activity of a HM74 polypeptide, wherein said therapeutic agent is

- i) a small molecule,
- ii) an RNA molecule,
- iii) an antisense oligonucleotide,
- iv) a polypeptide,
- v) an antibody, or
- vi) a ribozyme.

22. (Currently amended) A pharmaceutical composition for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising a HM74 polynucleotide.
23. (Currently amended) A pharmaceutical composition for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising a HM74 polypeptide.
24. (Currently amended) ~~Use of regulators of a HM74 for the preparation of a pharmaceutical composition~~ A method for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising administering to a mammal an effective amount of a regulator of HM74.
25. (Currently amended) Method for the preparation of a pharmaceutical composition useful for the treatment of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological

diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal comprising the steps of

- i) identifying a regulator of HM74,
- ii) determining whether said regulator ameliorates the symptoms of a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases in a mammal; and
- iii) combining of said regulator with an acceptable pharmaceutical carrier.

26. (Currently amended) ~~Use of a regulator of HM74~~ A method for the regulation of HM74 activity in a mammal having a disease ~~comprised in a group of diseases consisting of~~ selected from disorders of the peripheral and central nervous system, cardiovascular diseases, hematological diseases, cancer, inflammation, respiratory diseases and gastroenterological diseases comprising administering to a mammal an effective amount of a regulator of HM74.